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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |  | ATTORNEY'S DOCKET NUMBER<br>4366-061095<br><br>U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/576488</b> |
| INTERNATIONAL APPLICATION NO.<br>PCT/KR2003/002237   | INTERNATIONAL FILING DATE<br>23.10.2003 (October 23, 2003) | PRIORITY DATE CLAIMED<br>23.10.2003 (October 23, 2003)   |
| TITLE OF INVENTION<br>Regenerative Thermal Oxidizer  |  |  |
| APPLICANT(S) FOR DO/EO/US<br>Hyun-jae KEE, Myeong-soo YOON, Myeong-gug CHAE and Sang-bock LEE  |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))                         <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).                         <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))                         <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |  |
| <b>Items 11 to 20 below concern document(s) or information included:</b> <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> </ol>  |  |  |

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|---|--------------|---|---------|---|----|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.53)<br><b>10/576488</b>  |              | INTERNATIONAL APPLICATION NO.<br>PCT/KR2003/002237                            |         | ATTORNEY'S DOCKET NUMBER<br>4366-061095 |    |
| 20. Other items or information:<br><p style="text-align: center;">An Abstract of the Disclosure (1 p.)</p>  |              |   |         |   |    |
| The following fees have been submitted  |              |   |         | <b>CALCULATIONS      PTO USE ONLY</b>   |    |
| 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300   |              |   |         | \$ 300.00                               |    |
| 22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))   |              |   |         | \$ 200.00                               |    |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0   |              |   |         |   |    |
| All other situations.....\$200  |              |   |         |   |    |
| 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))  |              |   |         | \$ 400.00                               |    |
| If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0  |              |   |         |   |    |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....\$100   |              |   |         |   |    |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400   |              |   |         |   |    |
| All other situations.....\$500  |              |   |         |   |    |
| <b>TOTAL OF 21, 22 and 23 =</b>   |              |   |         | \$ 900.00                               |    |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof. |              |   |         |   |    |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE    |   |    |
| 41 - 100 =  | /50 =        |   | x \$250 | \$ 0                                    |    |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).   |              |   |         | \$ 130.00                               |    |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA  | RATE    |   |    |
| Total claims  | 9 - 20 =     | 0   | x \$ 50 | \$ 0                                    |    |
| Independent claims  | 4 - 3 =      | 1   | x \$200 | \$ 200.00                               |    |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |   | + \$360 | \$ 360.00                               |    |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |   |         | \$ 1,590.00                             |    |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |   |         | 795.00                                  |    |
| <b>SUBTOTAL =</b>   |              |   |         | \$ 795.00                               |    |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).   |              |   |         | \$ 0                                    |    |
| <b>TOTAL NATIONAL FEE =</b>   |              |   |         | \$ 795.00                               |    |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |   |         | \$ 0                                    |    |
| <b>TOTAL FEES ENCLOSED =</b>  |              |   |         | \$ 795.00                               |    |
|   |              |   |         | Amount to be refunded:                  | \$ |
|   |              |   |         | Amount to be charged                    | \$ |

10/576488

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. ☒ A check in the amount of \$ 795.00 to cover the above fees is enclosed. **APPROPRIATE 21 APR 2006**
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-0650. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

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SIGNATURE

Richard L. Byrne

NAME

28,498

REGISTRATION NUMBER

10/576488

1AP20REGU PCT/PTO 21 APR 2006  
PATENT APPLICATION/PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

ATTORNEY'S DOCKET NUMBER

Hyun-jae LEE  
Myeong-soo YOON  
Myeong-gug CHAE  
Sang-bock LEE

4366-061095

PCT/KR2003/002237

ENTITLED

"REGENERATIVE THERMAL OXIDIZER"

To MAIL STOP PCT

Attention: DO/EO/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

"Express Mail" Label Number EV833570713US

Date of Deposit April 21, 2006

I hereby certify that the following attached papers or fees

**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/  
ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER**

**35 U.S.C. 371 (original and one (1) copy) and check in amount  
of \$795.00 for filing fee and surcharge fee for late Declaration**

**APPLICATION DATA SHEET (3 pp.)**

**Copy of ABSTRACT OF THE DISCLOSURE**

**WO 2005/039741 – FRONT PAGE with ABSTRACT, SPECIFICATION,  
CLAIMS, DRAWINGS and SEARCH REPORT (41 pp.)**

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA, 22313-1450.

Nora Ann Pastrick

(Typed name of person mailing paper or fee)

Nora Ann Pastrick

(Signature of person mailing paper or fee)